




Behind These Lights
is the Emergency Protection of
EXIDE BATTERIES



Let This Fact STRIKE HOME

Lighting failures do happen! They happen despite every effort and precaution taken by power and light companies to prevent service interruptions.

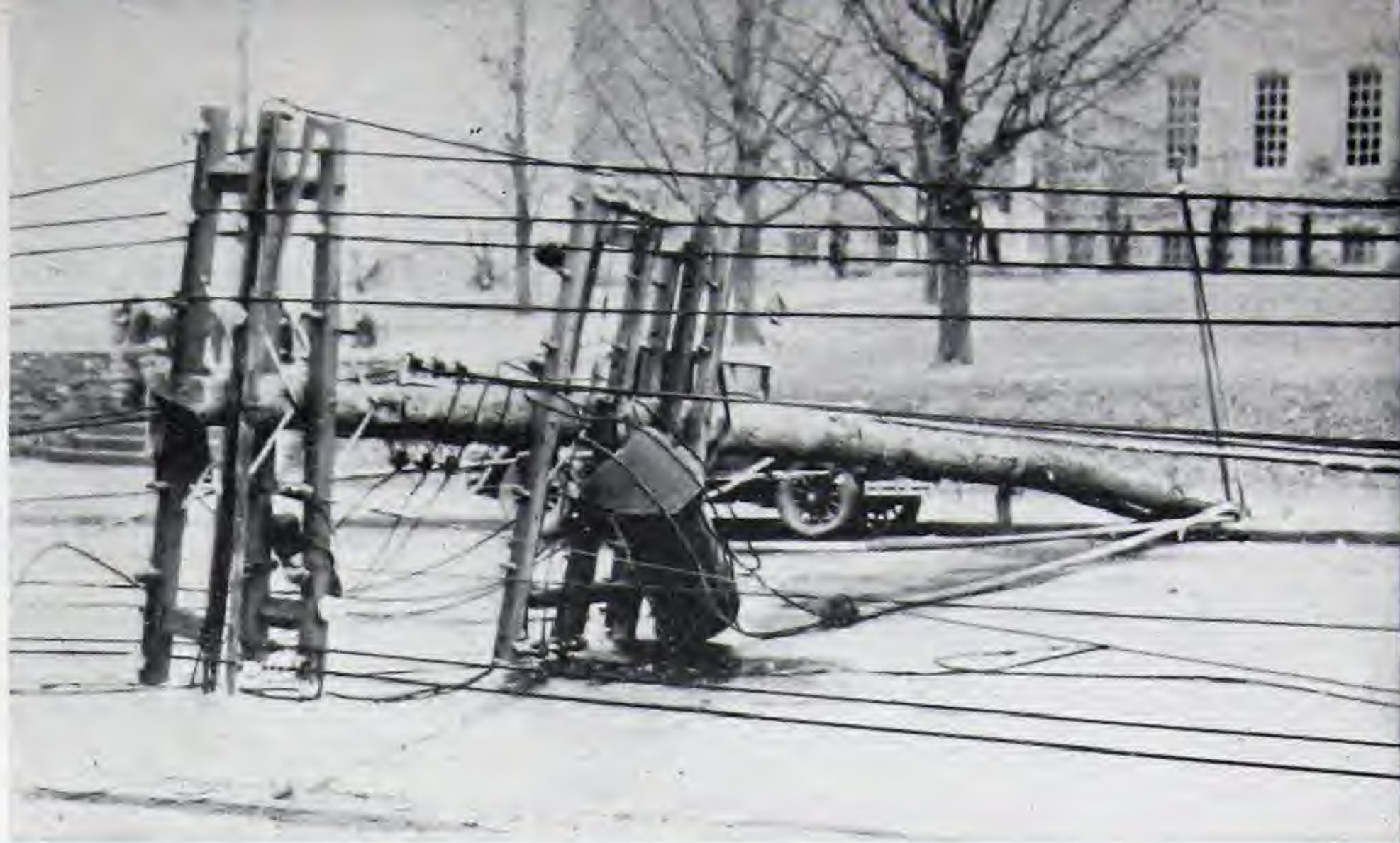
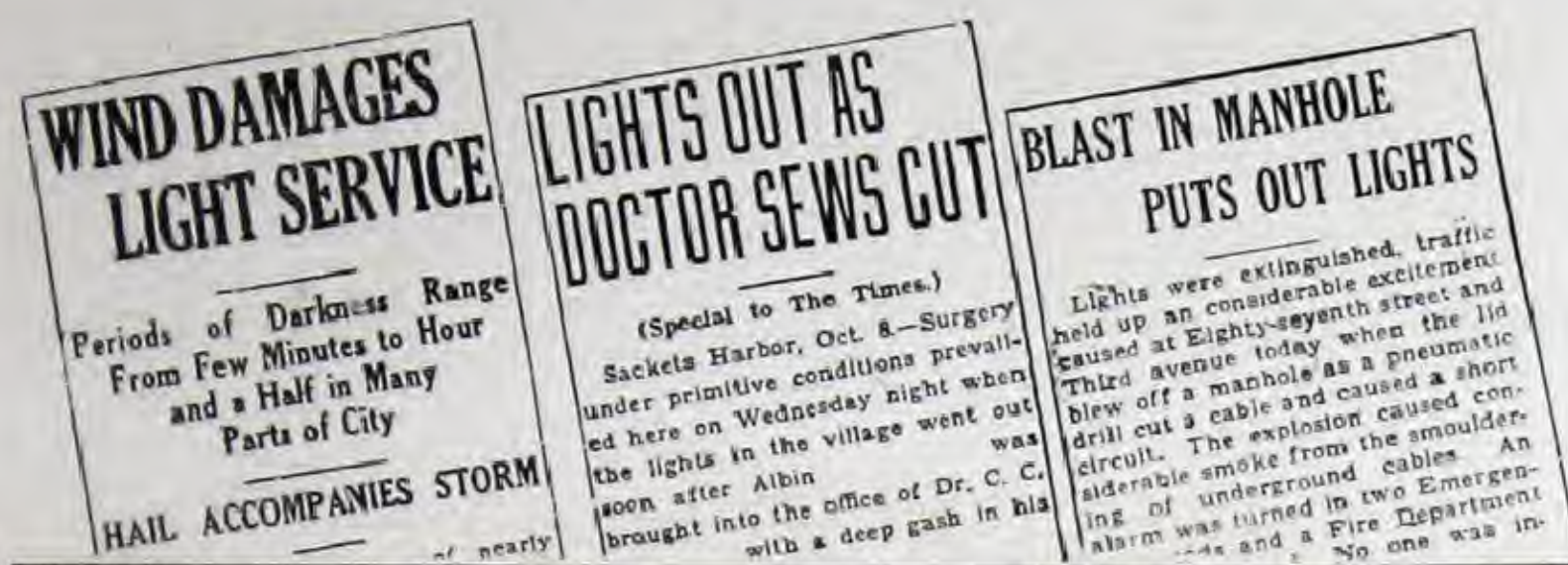
Night and day, highly efficient maintenance crews are on the job throughout the country repairing power lines damaged by events which they are absolutely helpless to foresee or prevent. For example: in New York City a broken water main shorts underground cables and buildings in nine city blocks are suddenly plunged into darkness; a Wisconsin storm snaps high tension wires and six towns are in complete darkness; while in Georgia a street accident snaps a power pole and every building in a wide area is blackened.

No city, town or building is immune from unavoidable yet costly electric power failures. These failures may last one minute or many hours. They may never happen in any given building, still, they can occur within the next minute. *One failure* in any building in which groups of people gather *can be one too many!*

Cover Illustration

¶ *Behind the lights of New York are 23,000 tons of Exide Standby Batteries. They are one of the precautions taken to assure uninterrupted power and light service in that city. These batteries have a capacity of approximately 1,364,000 amperes at 220 volts at the 10 minute rate. They could carry 30% of the lighting load of over 2,100,000 average American homes. ¶ Power failures seldom occur in New York City, except by accidents over which the public utility has absolutely no control—such as, a short circuit or blown fuse within the building affected. ¶ Incidentally, many cities, besides New York have protected their D-C business districts against light and power interruptions.*

¶ *Naturally, many architects and engineers with offices in the battery protected districts of large cities have never experienced the dangers and inconveniences of power failures; and, therefore, do not fully realize the need and desirability of emergency lighting protection in many types of public and semi-public buildings.*

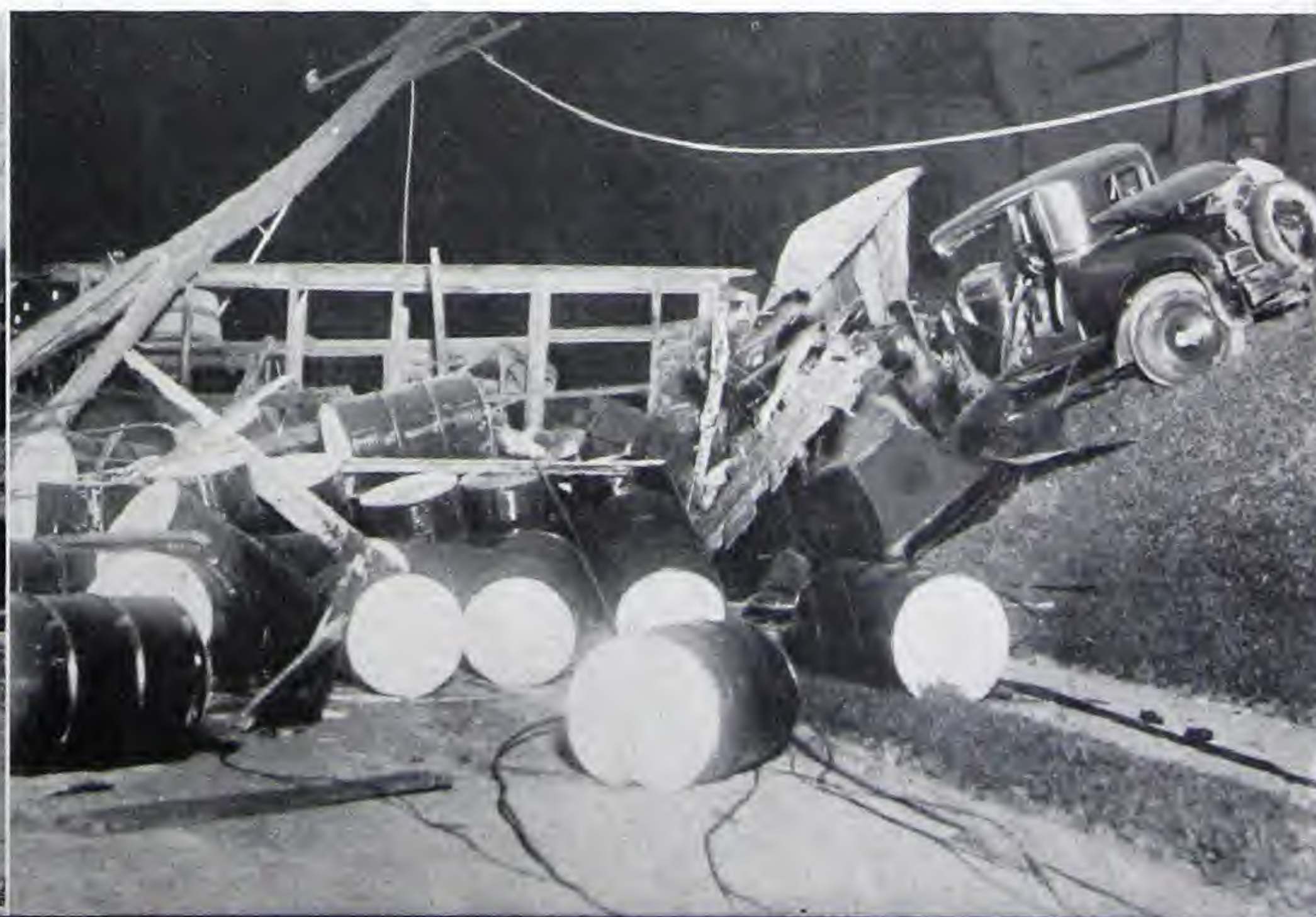


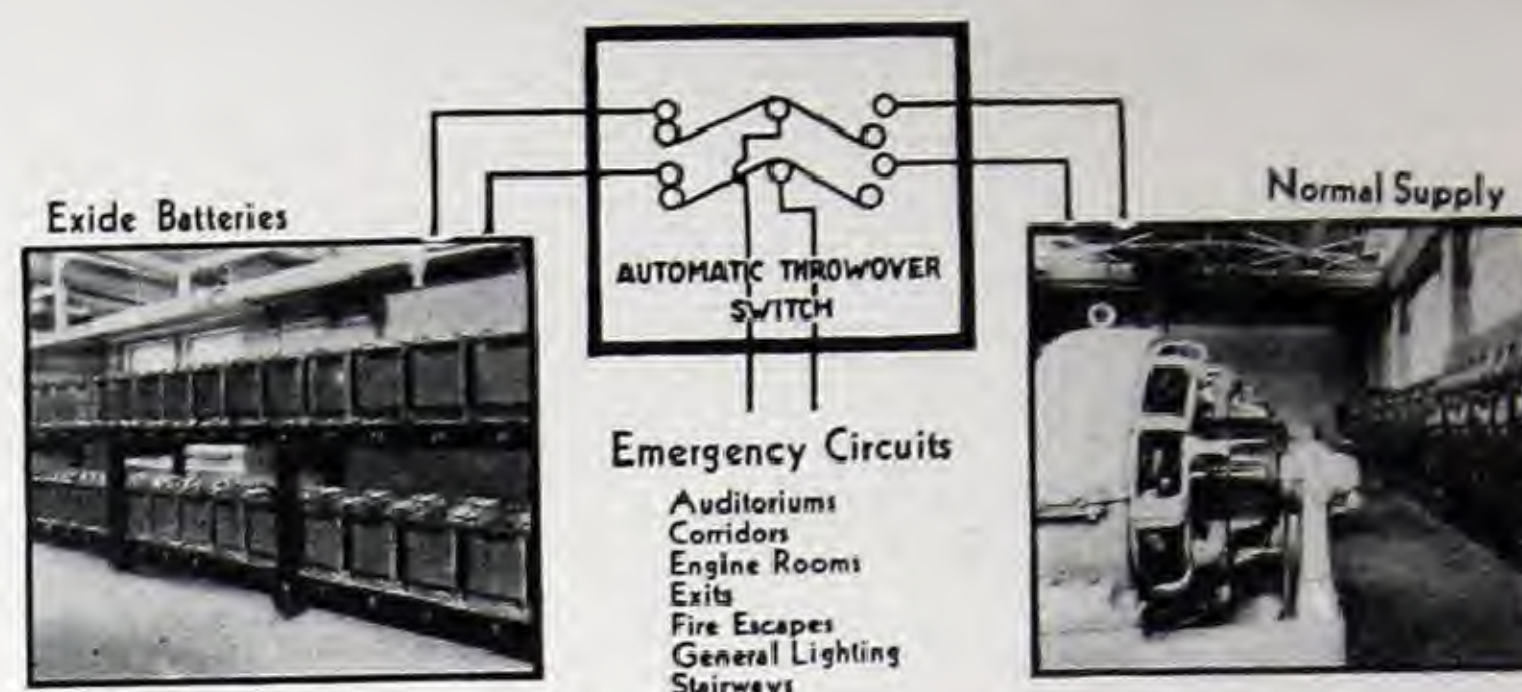
Storms—electrical, wind, snow, sleet—street accidents, fires, floods, blown fuses and short circuits CAUSE LIGHTING FAILURES

The vital need for emergency lighting can be easily visualized when we consider the increasing tendency of our times to assemble small and large groups of people under one roof for either work, education, medical treatment, recreation, merchandising or living. That the safety of these groups of people is today being given more serious and careful thought is evidenced by the improvements that have been made in municipal and state building, electrical and fire underwriting codes. These codes have resulted in better fire proofed buildings with more adequate means of emergency exit; and, the methods of distributing electrical power and light have been developed to a point where danger from this source is at a minimum. However, there will always exist elemental and accidental causes of electric power and lighting failures which no provision in an underwriters code, or precaution by a power and light company, can prevent. For example, power lines severed by an

electric, wind, sleet or snow storm, a street accident, fire, flood, short circuit or blown fuse are unavoidable—but they can and do plunge whole communities into sudden darkness.

Anyone who has ever experienced the uneasiness, restlessness and mood of a large group of people suddenly plunged into darkness knows how easily the bedlam and danger of panic can occur. Think of what might happen in a crowded school auditorium, theatre, dance floor; a hospital operating room with a patient on the table; a crowded market place; or, in the engine room of an industrial plant, hotel or office building. The results may readily be serious and far-reaching. It is for this reason that any type of public or semi-public building where groups of people assemble for any purpose—especially after dark—should be protected with emergency lighting. Many cities have already passed legislation making emergency lighting protection obligatory.





EXIDE KEEPALITE

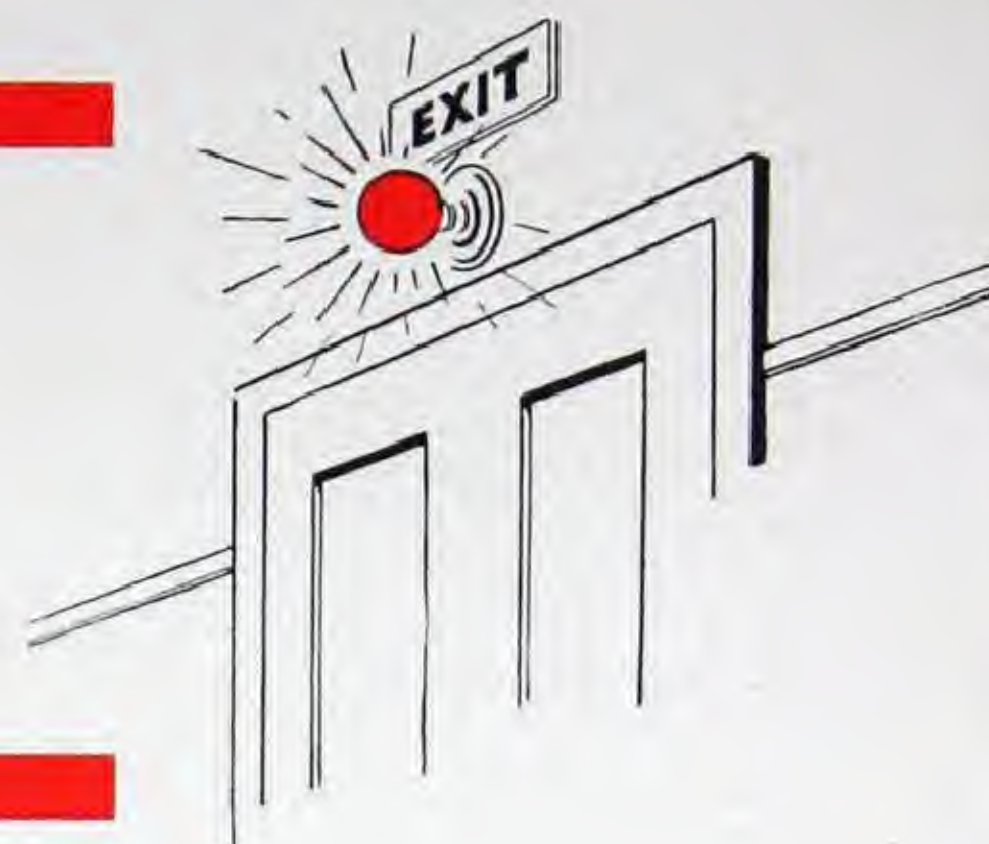
is completely automatic
and absolutely dependable
emergency protection

IN a split-second after an interruption to the normal power lines feeding any building protected by an Exide-Keepalite Emergency Lighting Battery System, light is restored to the protected lighting circuits of the building. This occurs automatically—not a hand touches a switch.

What happens is simple to explain. Let us assume that it is a hospital which is equipped with Exide-Keepalite. The lights in operating rooms, delivery rooms and accident dispensaries make up the emergency lighting circuit. This circuit is connected to the normal outside source of power through one side of an automatic, gravity accelerated switch (which is a part of the Exide-Keepalite Control Unit); connected to the other side of this switch is an Exide Emergency Lighting Battery. When the normal supply of power is interrupted the switch instantaneously "cuts in" the battery—thus keeping the emergency circuits supplied with current.

When electric service is restored the emergency lighting circuits are automatically transferred from the battery back to normal power supply and the battery is automatically charged at a high rate by a mercury bulb full wave charger until it is fully recharged. In addition, the new Exide-Keepalite Emergency Lighting Battery System, through the use of a *copper oxide trickle charger*, provides an automatic and low cost means of maintaining the battery in a fully charged condition at all times.

Protecting Exit Lights IS NOT ENOUGH



WHILE the protection of Exit lights is important, it does not constitute adequate emergency lighting in any building. In the interests of public safety the application of emergency lighting should be extended to every part of a building where danger might occur.

Hospitals—In hospitals Exide-Keepalite fills a very definite need. Frequently, the same storm, fire or accident which puts out the lights may cause many injuries requiring the immediate use of the operating room or accident dispensary. Lights in these rooms must be protected. Today, many hospitals go much farther. Not only do they provide emergency lighting protection in these two vital rooms, but also in delivery rooms, dressing rooms, etherizing rooms, connecting corridors, stairways, exits and engine rooms.

Educational Buildings — School assembly halls, gymnasiums or auditoriums which are used at night need Exide-Keepalite protection as well as all stairways, corridors and doorways leading to them. In such places sudden darkness can easily turn an orderly, well behaved crowd into an uneasy and unreasonable mob, often resulting in much damage and possibly injuries.

Theatres, Recreational Buildings—Should lights fail in theatres—large or small—dance halls, or community centers, an Exide-Keepalite Emergency Lighting System will prevent panic, personal injuries, property damage and the loss of

patronage or the necessity of refunds. Exide-Keepalite will furnish adequate illumination during emergencies with floodlights to prevent danger in outdoor pools used at night or in the indoor pools of Y. M. C. A.'s, hotels, clubs or athletic centers. Stairways, exits, lobbies and the cashier's box should be protected.

Industrial Plants — Many industries conduct dangerous or delicate processes, the control of which might be lost if lights fail. The valve control rooms of oil-cracking or chemical plant is illustrative. It is especially important to have continuous lighting in every power plant or boiler house. Another vital place is the payroll or treasurer's offices.

Engine Room of Any Building — Exide-Keepalite should be installed in every building having a boiler, engine or transformer room. It is in such places that lighting troubles are apt to originate. Lighting is necessary to find the trouble quickly and make repairs; thus saving losses through idle men and machines.

Stores and Markets — In department stores, large market places and other types of retail outlets, Exide-Keepalite emergency lighting protection will guard against theft and prevent damage or injury. Aisles, jewelry department, open counter displays, exits, stairways and cashiers cages should be protected.

Exide-Keepalite will: (1) enable the store to continue business; (2) prevent injuries and damage; (3) prevent petty theft and shop-lifting; (4) protect cash registers; (5) eliminate the fire hazard of substitute lighting, especially candles; and, (6) prevent loss of good-will.

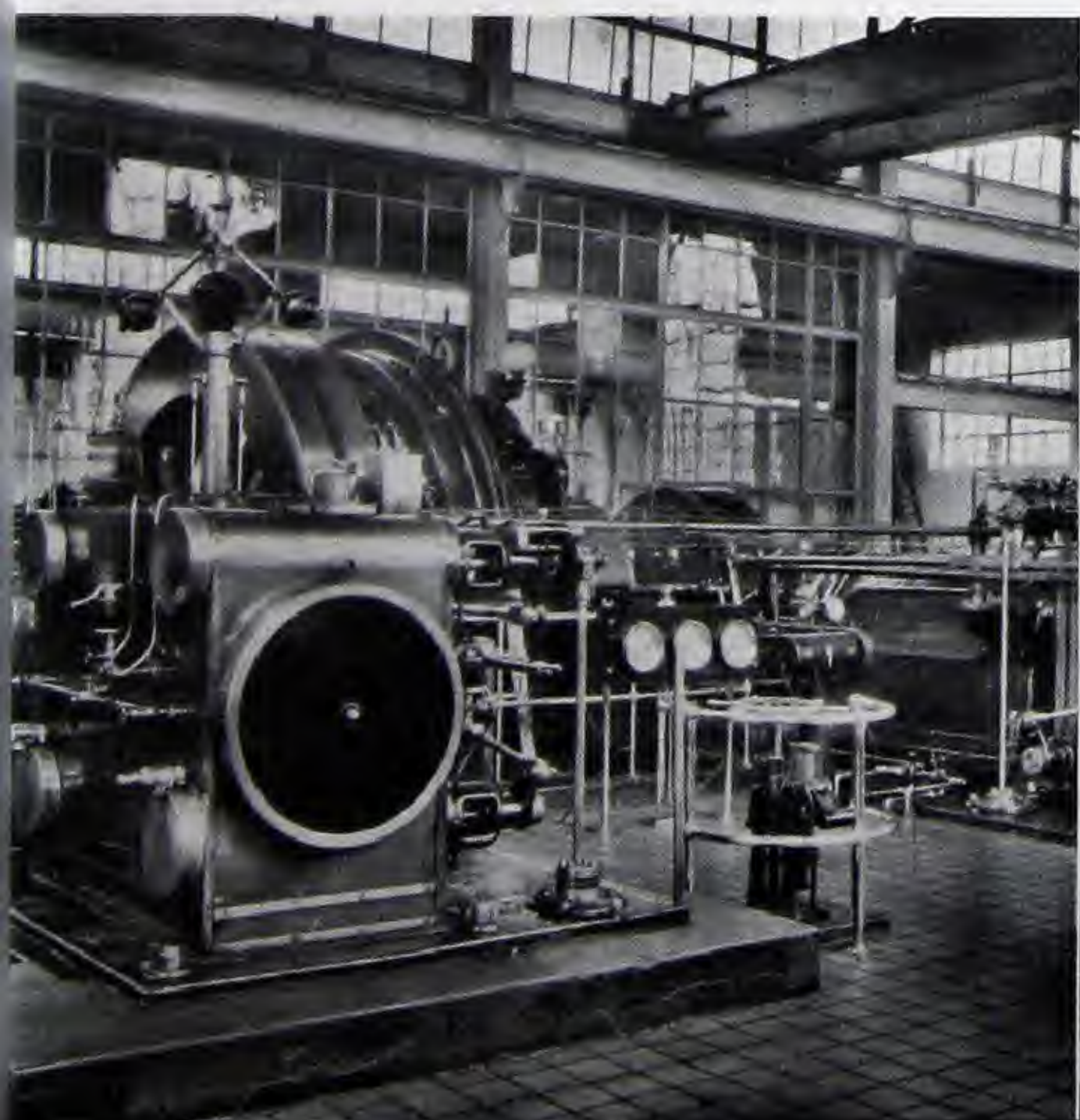
Museums and Large Houses—In public museums and the museums of large estates, lighting protection should be extended to rooms housing valuable collections to forestall theft.

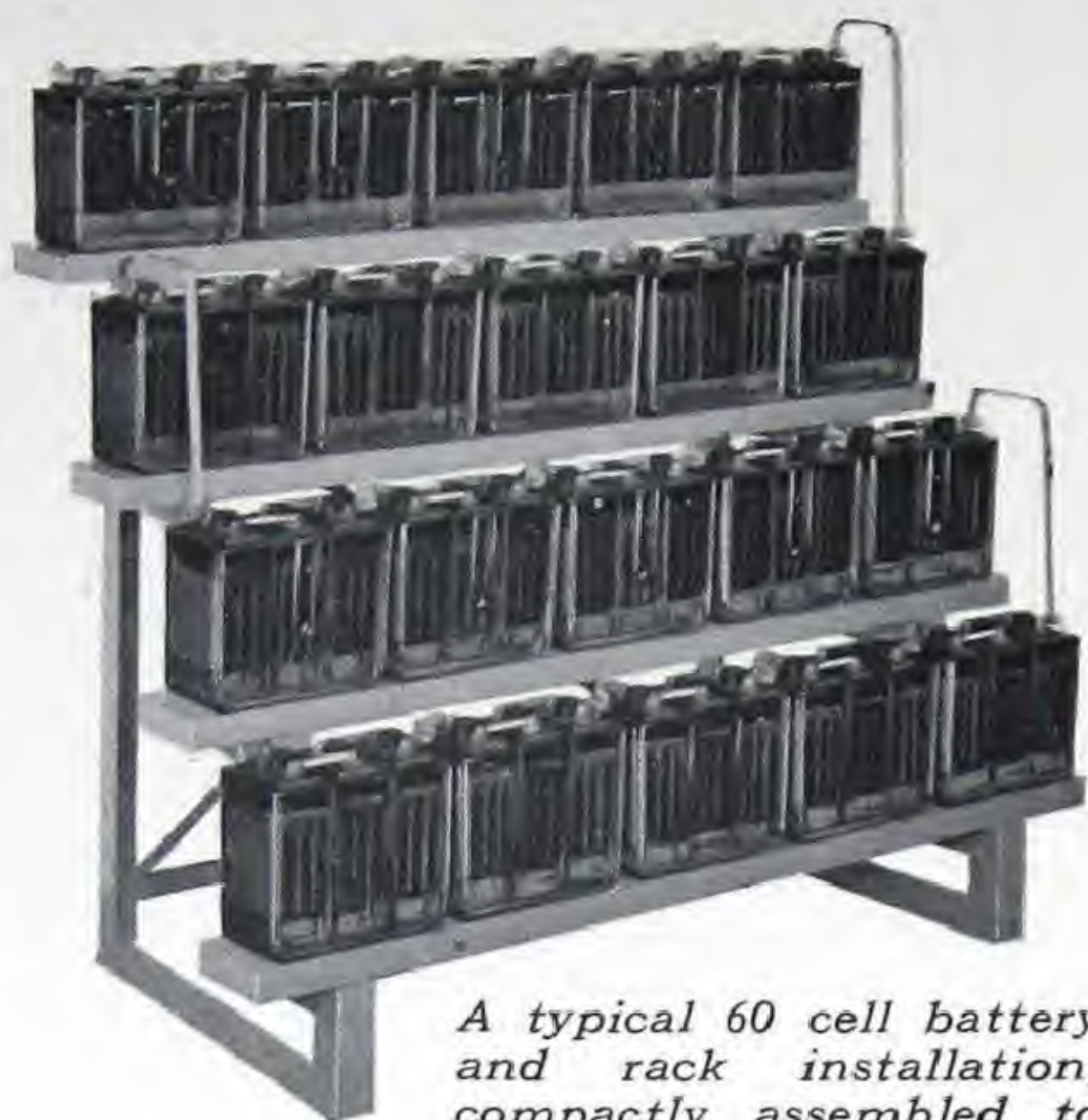
Apartments, Clubs and Hotels—In this type of building emergency lighting should include not only the engine or transformer rooms, but also dining rooms, ball-rooms, auditoriums, hallways, stairways, lobbies, swimming pools and exits.

Prisons, Jails, Police Stations—Serious consequences can result from a power and lighting failure in these types of buildings. In prisons and jails the warden's and turn-key's offices, mess halls, auditoriums, engine rooms and corridors should be protected.

Institutions and Asylums—Wherever groups of very young, aged or mentally infirm people are cared for, there is need of Keepalite emergency lighting protection. Play rooms, sick rooms, dining rooms, corridors and exits are the vital spots that should be protected.

Wherever people gather especially after dark, for either work, education, medical attention, recreation, business or living there is a definite need for emergency lighting protection. Exide-Keepalite should be installed wherever sudden lighting failure might result in: (1) panic or injury; (2) property damage; (3) fire hazard; (4) theft; (5) interruption of the control of industrial process; (6) interruption of business and, (7) loss of good-will.





A typical 60 cell battery and rack installation, compactly assembled to occupy a very small space.

Today's Exide-Keepalite Emergency Lighting Battery System is *New* in its design. It is as *different* from the early forms of emergency lighting equipment as the light from a modern incandescent lamp is from candle light. The New Exide-Keepalite represents a product perfected by the experience gained in making more than 1500 installations. That it is *better* is proven by its high efficiency, absolutely dependable operation and low costs. It is 100% automatic . . . 100% instantaneous . . . 100% dependable.

INCREASED EFFICIENCY AT LOWER COST

The new and improved fully automatic features of the Exide-Keepalite Emergency Lighting Battery System have accomplished three important things: (1) they have greatly increased efficiency and dependability; (2) they have cut operating and maintenance costs 82%; and, (3) they have doubled the average useful service of the battery.

COMPLETELY AUTOMATIC

The new Exide-Keepalite Emergency Lighting Control Unit not only automatically and instantaneously switches the emergency load from the interrupted normal power to the absolutely dependable Exide Battery; but—when service is restored, it automatically

transfers the emergency circuits back to the normal supply. *Furthermore, it automatically takes care of all battery charging.*

This completely automatic control is of great importance. Experience proves that a large percentage of all types of emergency lighting systems become inoperative due to neglect or lack of intelligent supervision. This new Exide-Keepalite System has taken the maintenance problem out of the hands of an attendant. The only attention now required by an Exide-Keepalite System is the replacement of water, which has evaporated in the cells, not more than two or three times a year.



This dry pile copper-oxide rectifier keeps the battery ready at all times, for emergency discharge at an extremely low cost.

ELIMINATES GUESS WORK

The fully automatic Exide-Keepalite Control Unit eliminates all guess-work as to the working condition of emergency lighting equipment. The charger bulb does not have to be watched to see if it is working. The recharging switch does not have to be turned "on" or "off" so as to prevent either under or over charging. The battery will not be in a rundown condition because of failure of a bulb type maintenance charger. All of these things are controlled automatically.

Automatic control eliminates the damaging consequences of errors in human judgment; it makes possible the consumption of only a minimum amount of maintenance current and, because it prevents "under" and "over" charging, the serviceable life of the battery is increased 100%. Translated into dollars and cents, these things result in very substantial savings (see diagrams). Moreover, fully automatic charging assures a higher degree of efficiency than could ever be reasonably expected from lower priced equipment not having this desirable fully automatic charging feature.

82% Saving in Operating Costs

The operating costs of the new Exide Keepalite Systems, figured at 7 cents per K.W.H., is only about 12% of the costs of the ordinary bulb type charging equipment. Thus a saving of about 82% is effected.

COST PER YEAR IN DOLLARS



NEW EXIDE KEEPALITE

82% Saving in Operating Costs
50% Increase of Battery Life
Completely Automatic
Absolute Dependability
Use of Copper Oxide Rectifier
Use of Mercury Bulb

HOW IT WORKS

Automatic battery maintenance means of a specially designed dry pile copper-oxide rectifier. The rectifier is charged by the copper-oxide rectifier. The rectifier charges the battery at a small or trickle charge rate. In case of emergency discharge, the rectifier automatically places the battery in full charge. This charge continues until the voltage is reached. It is then relayed; and the low rate of charge is maintained. The copper-oxide rectifier keeps the battery ready at all times, for emergency discharge at an extremely low cost.

EFFICIENCY OF CHARGING

It was formerly the practice to charge the battery by using a resistor and to keep it trickle charged. This method was very inefficient and resulted in frequent replacement of the battery.

The dry pile copper-oxide rectifier furnishes low rates of charge, thus reducing the rate of charge. Laboratory tests show no end of the use of the rectifier as contrasted with the old type bulb trickle charger.

In the Exide fully automatic system, the bulb (improved type) charges the battery at a rate of charge after a period of unusual length—frequently 100 hours.

AUTOMATIC CONTROL

The Exide Automatic Control Unit is a magnetic device which transfers the emergency circuits instantaneously to the battery.

A typical fully automatic Exide-Keepalite System operates under 30 amperes. All equipment except the battery is contained in a single unit.



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: Operation
ty
Rectifier
Full Wave R



A typical fully automatic Exide-Keepalite charger and control unit for emergency loads over 30 amperes. All equipment except the battery is contained in this cabinet.

once is accomplished by a patented Exide Relay, and a mercury bulb which is at all times kept in a state of readiness by a rectifier which furnishes a continuous current continuously. After every charge, the Exide Relay cuts off the battery on the high rate (improved type) full wave rectifier until a pre-determined time, after which it automatically cuts off by a relay furnished by the battery charged.


de charger and the new Exide Control Unit, the cost of which is \$23.00, a capacity of 23 amperes - fully charged will cost against \$9.34 for the equipment (current figured

The latter was accomplished by connecting the charging circuit to the battery. This method resulted in high power bills, and larger bulbs was necessary. The rectifier—designed for filtered current—keeps the 1/2% of the cost of the old unit for a period of eight years over the life of the dry pile copper cell. The six months average life of the larger, more efficient unit as the Mercury is used only for the high voltage culture, the life of the bulb is 10 years.

sfer Switch is an electro-
rs the emergency lighting
d *automatically* from

ger and control unit for emergency loads
the battery is assembled in this cabinet.



 Before specifying emergency lighting equipment, compare the efficiency of the New Exide Emergency Lighting Battery System; compare its absolutely dependable, automatic and instantaneous features with any

other form of emergency lighting; and compare the costs of current, bulb renewals and maintenance with other Systems. These comparisons are important. They will show you why electric light and power, telephone and railroad engineers are agreed that storage batteries are the most satisfactory form of emergency power protection.

More complete descriptive literature is available covering every type and size of Exide Keep-alite Emergency Lighting Battery Systems. This literature will be sent upon request.

The new and improved fully automatic feature of the new Exide Keepalite Systems, together with the use of copper-oxide rectifiers have doubled the average useful service of the battery.

Brand	Condition 1	Condition 2	Condition 3	Condition 4	Condition 5	Condition 6
A	4.5	4.5	4.5	4.5	4.5	4.5
B	3.5	3.5	3.5	3.5	3.5	3.5

LOW COST PROTECTION FOR LIMITED AREAS

The specially designed low cost, low voltage Exide Keepalite System will assure protection for areas of 10,000 square feet, or less.

More than one room can be protected by the new low voltage Exide - Keepalite System.

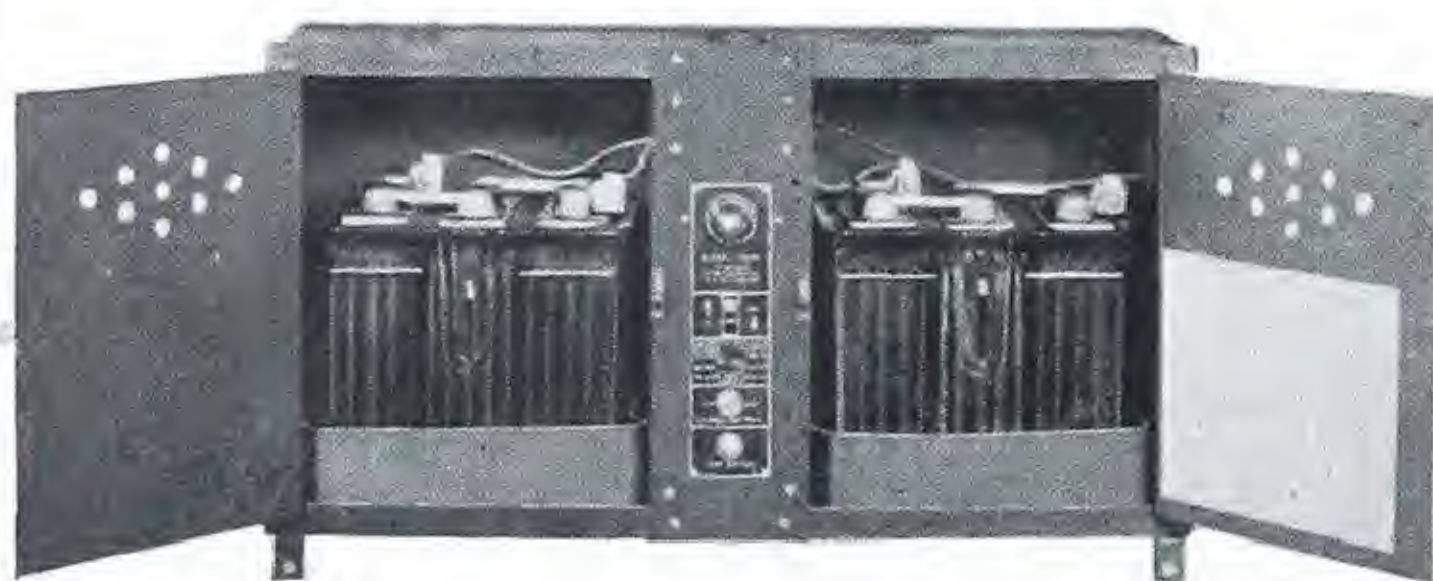


Areas as large as 10,000 square feet can be adequately lighted sufficiently for emergency purposes.

There are thousands of small buildings, (as well as limited areas of larger ones) which need emergency lighting protection. In the past, the naturally higher price of the 115 volt equipment has been the factor which has kept emergency lighting protection out of such buildings; today, however, Exide has designed equipment which will assure absolutely dependable emergency lighting protection within limited areas. The unit costs \$150.00.

HIGHLY FLEXIBLE

This new low voltage Exide-Keepalite System is extremely flexible. It furnishes dependable emergency current which may be concentrated within a limited area to provide light equaling normal lighting; or, it may be used to supply only enough



\$150.00 will buy this Exide-Keepalite Control Unit which includes batteries, chargers, switches, etc.

light for visibility in much larger areas (many exceeding 10,000 square feet) which may be divided into numerous smaller rooms.

WHAT IT IS

The Exide-Keepalite low voltage system is a self-contained emergency lighting system which supplies a separate source of electric current to its own high-efficiency, low voltage lamps. It operates automatically and instantaneously. It consists of an Exide Battery, automatic relay, battery charger, switches and signal—all assembled in a compact attractive case; also, low voltage lamps, fixtures and wide diffusion globes.

HOW IT WORKS

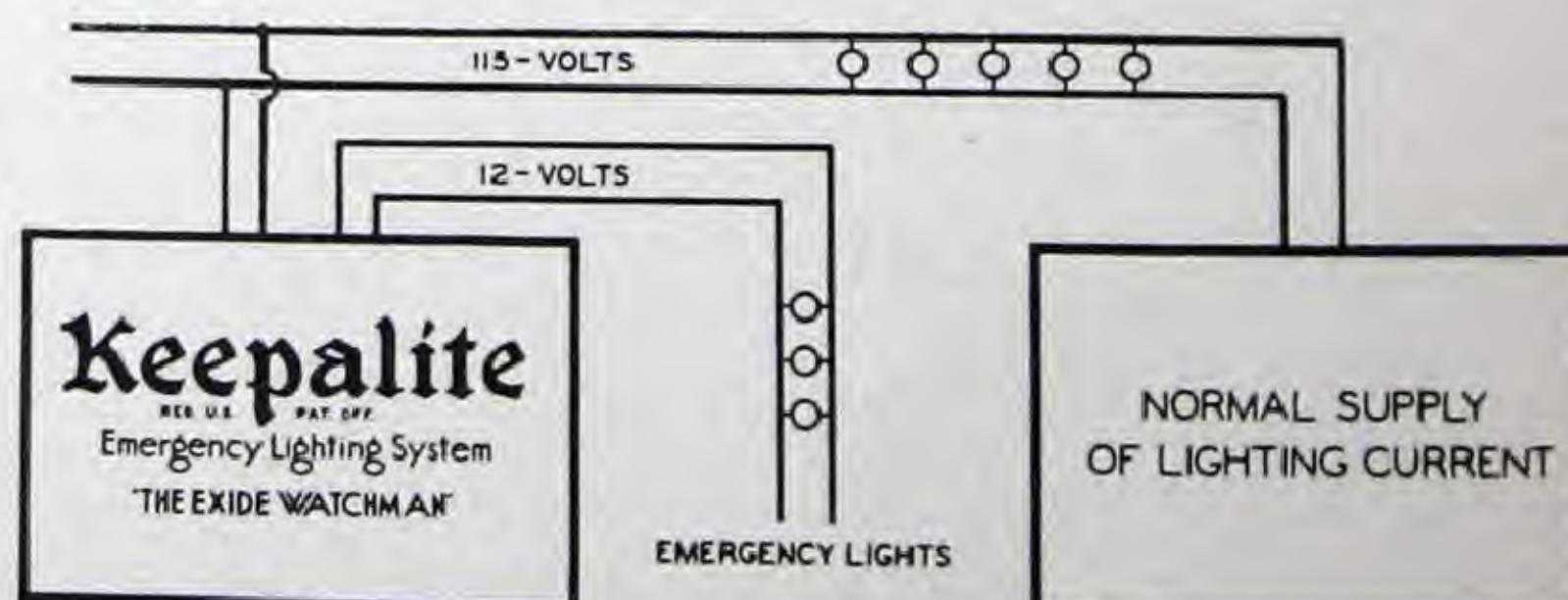
Whenever the normal supply of power in your building is interrupted, this new low voltage Exide Keepalite System *automatically* and *instantaneously* lights the protected areas of the building. It gives split second action—without a hand touching a switch. When normal power is restored the Exide-Keepalite System *automatically* shuts off; and the battery goes back on trickle charge. Provision is made for charging the battery at a higher rate.

HIGH EFFICIENCY LAMPS

The specially developed highly efficient, low voltage lamp used by this system provides *nearly twice as much light as a 110 volt lamp of equal wattage*.

All smaller buildings, or parts of larger buildings, can be protected with this new, low cost equipment. However, in larger buildings where complete lighting protection is required, naturally the larger 110 volt Exide Emergency Lighting Battery system should be installed. The low voltage Exide-Keepalite is not a substitute for the larger systems. It was designed to afford protection for areas limited to 10,000 square feet.

Omission of an adequate system of emergency lighting is never justified on the basis of economy. Today, with Exide automatic equipment as low as \$150, cost is no longer a prohibitive factor in the consideration of emergency lighting protection.



Exide Batteries are Assurance of Dependable Emergency Power



Since 1891 the dependability of Exide Batteries has been proven in many services. For instance, huge Exide Standby Batteries are used to protect the entire lighting load of the downtown business sections of many large cities. Throughout the country thousands of power and light companies use Exide Batteries not only for the operation of switches but emergency lighting as well. In railway signalling where absolute dependability is the first consideration, Exide Batteries predominate. This is also true in telephone, telegraph and marine service. Aboard submarines when submerged, Exide Batteries are used for propulsion, heating, lighting and communication. *Dependability is the foremost characteristic of an Exide Battery.*

The Electric Storage Battery Company, in accordance with its long established policy of providing a storage battery especially designed to meet the requirements of every field in which a battery is used, has provided a complete line of batteries suitable for every size and type of light or power equipment used in buildings.

TYPE OF BATTERY

Of the many kinds of storage batteries manufactured by The Electric Storage Battery Com-

pany, certain types have been designed to meet the conditions of Emergency Light and Power service, where a dependable source of power is essential and good voltage must be obtained at high discharge rates.

IN SEALED GLASS JARS

These types of batteries are of the sealed glass jar assembly with a molded composition cover sealed to the tops of the jars. This construction, together with a vent plug designed to effectually trap all acid spray, makes it unnecessary to provide a separate battery room. The elements are suspended from the cover by means of the terminal posts which are clamped to the covers by greasing seal nuts. A hard rubber pin passing under the element between staggered lugs on the positive and negative plates prevents plate displacement and supports the separators. In order to insure uniformity each cell is subjected to a complete test before shipment. To facilitate handling and provide ease of installation all cells, except the extremely large sizes, are shipped assembled, sealed and charged, ready for immediate use.

THE EXIDE CHLORIDE BATTERY

The Chloride type battery is undoubtedly the most rugged, durable and economical battery ever



A typical cell of the Exide Chloride Battery most commonly used for emergency service.

ENGINEERS AGREE

that a properly maintained storage battery is the most dependable source of emergency power. In fact, it is common practice for utility companies to use batteries for emergency lighting in their own generator and sub-stations, as well as to insure the operation of circuit breakers.

produced for emergency light and power service. The "Manchester" positive plate consists of a grid of cast lead antimony alloy, perforated with circular openings slightly tapered toward the center.

POSITIVE PLATE BUTTONS

Rosettes or buttons of pure lead are pressed into the openings by hydraulic pressure. These buttons are made from strips of specially selected lead corrugated crosswise and rolled into a spiral. The buttons in the plate are formed electro-chemically by the Planté process which produces active material on the button surfaces. The buttons are securely locked in place by the hydraulic pressure and expansive action of the forming process in combination with the "figure eight" shape of the openings.

The long life of this type of plate is due in part to the heavy rigid grid, made of an alloy which resists the electrolytic action in the cell and in part to the reserve lead in the buttons which is gradually converted into active material as needed to replace that which may be dislodged in service.

THE BOX NEGATIVE PLATE

In combination with the Manchester positive the "Box Negative" plate is used. The grid of this plate consists of a series of horizontal and vertical bars, spaced about one inch apart, forming square pockets closed on both sides by perforated sheet lead. These pockets contain the active material in the form of sponge lead, which is thus permanently retained in position.

This construction makes for an unusually long life, heavy duty, reliable and economical battery. The Exide Chloride Accumulator may be obtained in practically any capacity from that of the small laboratory cells to that of the enormous batteries used in Central Stations and telephone installations.

The Chloride Accumulator while higher in first cost is recommended when the maximum durability and economy is desired over long periods of time.

THE EXIDE PASTED PLATE TYPE

The other type of plate offered with the sealed glass jar construction is the Exide pasted or flat plate battery. These plates are of the same design and construction as that employed in the large standby batteries where it is important to provide maximum capacity in a given space with absolute reliability.

CONSTRUCTION

The Exide grid consists of a rectangular alloy frame provided with vertical bars interconnected by horizontal ribs on each side, staggered to provide a recess for active material. The material in the form of a paste is pressed into the recesses and when hard, forms vertical strips between the vertical bars locked into place by the ribs. Both positive and negative grids are of similar design.

The Exide flat type plate is the result of thirty years' experience and development and it represents the maximum of ruggedness and durability in a pasted plate. It is used where the space consideration and low initial cost are dominating factors. A wide range of capacities is available.

ENGINEERING SERVICE

The Electric Storage Battery Company maintains a staff of storage battery engineers in each of its nineteen branches located throughout the country. These engineers will gladly render you free service in laying out the equipment for an emergency light or power installation, or they will gladly assist you on any of your storage battery problems.

EXIDE OPERATING SERVICE

In order that the maximum life and service from Exide Batteries may be obtained, The Electric Storage Battery Company maintains an inspection and operating department in each of nineteen cities.

Exide Keepalite

THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia

The World's Largest Manufacturers of Storage Batteries for Every Purpose

Exide Batteries of Canada, Limited, Toronto

ATLANTA, 210 Walker Street, S. W.

BOSTON, 100 Ashford Street

CHICAGO, 4613 S. Western Ave. Blvd.

CINCINNATI, 718-19 Temple Bar Bldg.

CLEVELAND, 6400 Herman Ave., N. W.

DENVER, 810 14th Street

DETROIT, 8051 W. Chicago Boulevard

KANSAS CITY, 129 Belmont Boulevard

LOS ANGELES, 341 W. 18th Street

MINNEAPOLIS, 3 North Fifteenth St.

NEW ORLEANS, 428 Balter Building

NEW YORK, 23-31 West 43d Street

PHILADELPHIA, Allegheny Avenue and
19th Street

PITTSBURGH, Union Trust Bldg.

ROCHESTER, 642 Plymouth Ave., South

ST. LOUIS, 1058 South Vandeventer Ave.

SAN FRANCISCO, 6150 Third Street

SEATTLE, 1919 Smith Tower Building

WASHINGTON, 1823-33 L Street, N. W.

These Lights DID NOT FAIL

Wherever an EXIDE KEEPALITE System is installed it is used. In the reports below, normal current failed, yet lights continued.

Hospital—During the last earthquake The Hospital of the Good Samaritan, Los Angeles, Calif., used their Exide Emergency Lighting System when both outside sources of electric current failed.

School — In the Boswell High School, Boswell, Penna., there was an interruption in the normal power supply during the evening school exercises. This outage lasted over an hour, but due to Exide-Keepalite there were no inconveniences and the program continued.

Steel Mill—In a Western Pennsylvania steel mill a power failure occurred on a metal mixer, the operation of which was protected by an Exide emergency power battery. Both the battery and mixer worked satisfactorily thus preventing injury to workers and also saving loss of materials.

Theatre—During a performance at a Syracuse Theatre the normal supply of lighting current was interrupted during a severe storm. The interruption lasted two hours. However, the theatre was able to continue the show because its lighting circuits were protected by an Exide Emergency Lighting System, while all other theatres in the city were forced to close.

Chain Store—On Christmas Eve the town of Sarasota, Florida, was thrown into complete darkness by a power failure. The Manager of a nation-wide chain store which is equipped with an Exide-Keepalite System stated that he was able to continue business—that there was absolutely no confusion in the store and that the people gathered around the front of the store, trying to find out why this store had lights and the rest of the town was in complete darkness.

Armory—A power failure occurred in the Somerset Armory, Somerset, Penna., last Fall when the floor was crowded during a drill. However, the Exide Emergency Lighting System functioned perfectly and drill continued.

Hospital — The St. Vincent's Hospital, Jacksonville, Fla., reports two curious incidents during which their Exide-Keepalite Emergency Lighting System operated perfectly. On one occasion a mouse got into the hospital's circuit breakers causing a power failure lasting four hours. Meanwhile several deliveries were made by the stork. On another occasion the Exide System provided lights for operations when the regular city lighting power was cut off.

Institution—Last summer during a thunder storm the normal power to the Brunswick Home, Amityville, Long Island, failed. The Exide Emergency Lighting System worked to the satisfaction of everyone for a period of nearly half an hour.

Hospital — Mrs. S. J. Barnes, Superintendent of the United Hospital, Port Chester, New York, writes: "The Exide Emergency Lighting System protecting our operating room has been called on for service three times. In each case the lights in this room continued without interruption."

Hospital—A severe snow storm severed the power lines to a small hospital in Sunbury, Penna. The Exide-Keepalite System protected the operating rooms of this hospital from 6 P. M. until nearly noon the next day. They also operated satisfactorily for 20 minutes during an electrical storm the following summer.

Chain Store — On the opening night of a chain store in St. Albans, Vt., the normal power failed. However, due to their Exide-Keepalite System business was continued without interruption.

Emergency Power and Light Protection is Not New

Thousands of Exide Batteries are used throughout the country for emergency power and lighting protection.

Since 1895 Exide emergency battery power has been used by railroads to safeguard the operations of signals and switches; they are used by telephone and telegraph companies to insure service continuity; and, aboard ships they provide emergency power for radio, lighting and navigating devices.

Power and light companies themselves take precautions to provide emergency lighting protection in their own central and sub-stations. They use thousands of Exides not only for emergency lighting, but also the operation of their large oil switches. Furthermore, in many large cities huge Exide "Standby" batteries are used to protect the D-C business districts against service interruptions.

Since light and power companies take every precaution to prevent lighting failures in their own stations it is logical that Exide-Keepalite emergency lighting protection should be provided in every building where lighting failure might endanger lives; or, result in injuries, theft and property damage.

Since 1927 more than 1500 Exide Emergency Lighting Battery Systems have been installed in public and semi-public buildings of every description, large and small, in every part of the country.

Exide

**EMERGENCY LIGHTING
BATTERY SYSTEMS**

THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia
THE WORLD'S LARGEST MANUFACTURERS OF STORAGE BATTERIES FOR EVERY PURPOSE
Exide Batteries of Canada, Limited, Toronto



Power Plant



Telephone



Industrial



Car Lighting & Signals